

One-Road Interface Prototypes

July 2007



**Washington State
Department of Transportation**

One-Road Interface Prototypes



This slide show walks through a non working prototype of the Data Provider and Data User portals. The non working prototype portals conform to the written requirements and specifications agreed to by WA-Trans partners and to the business requirements that form the basis for WA-Trans decisions and strategies. **These non working prototypes are being used by the users to confirm and refine requirements**

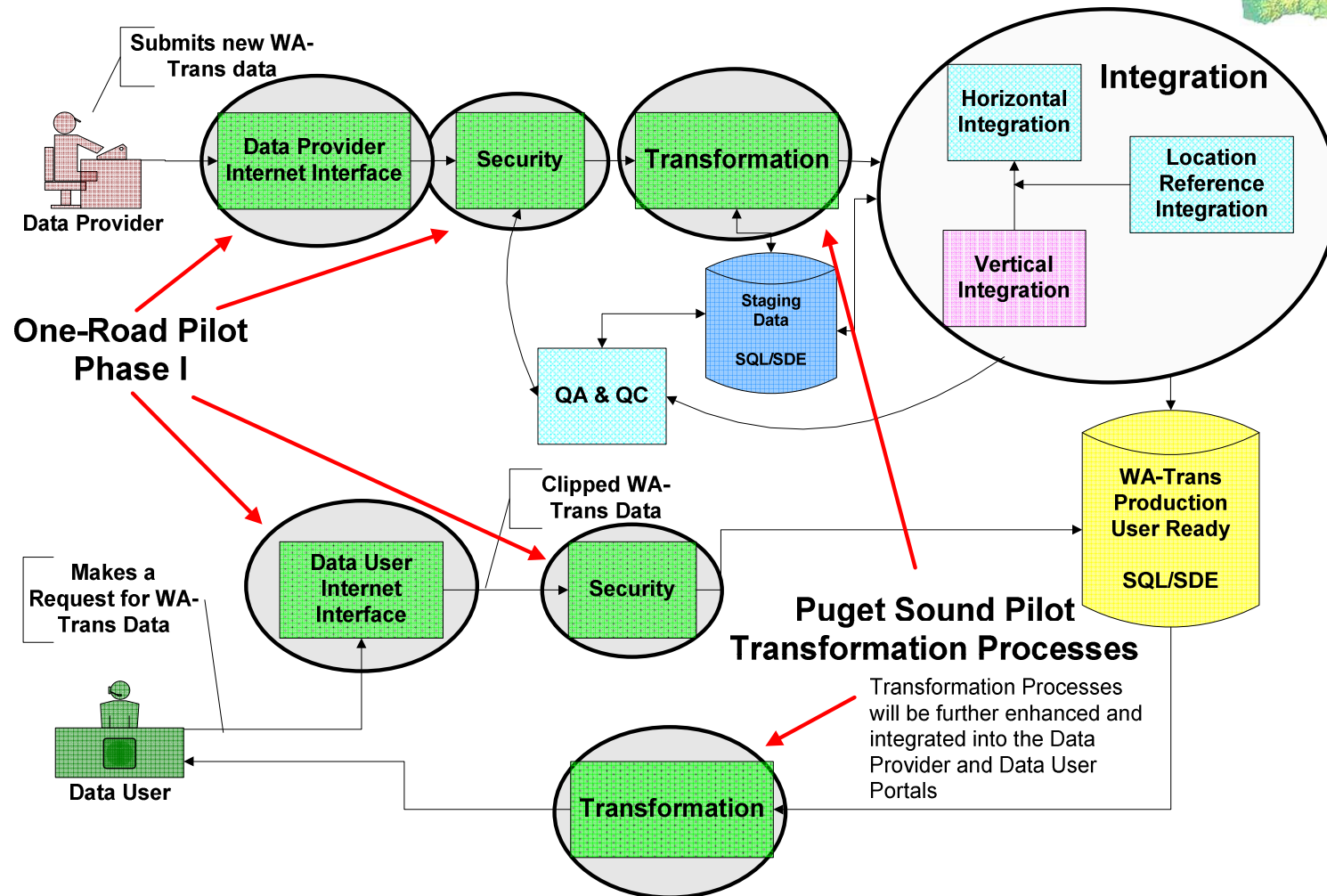
The One-Road Phase I Pilot is concerned with getting the basic Data User and Data Provider Web Portals running for the use of the five counties participating in this pilot. After completion of this pilot the findings and software will be available to TPF members. All TPF Members are welcome to participate in any phase of this pilot.

Strategies Employed

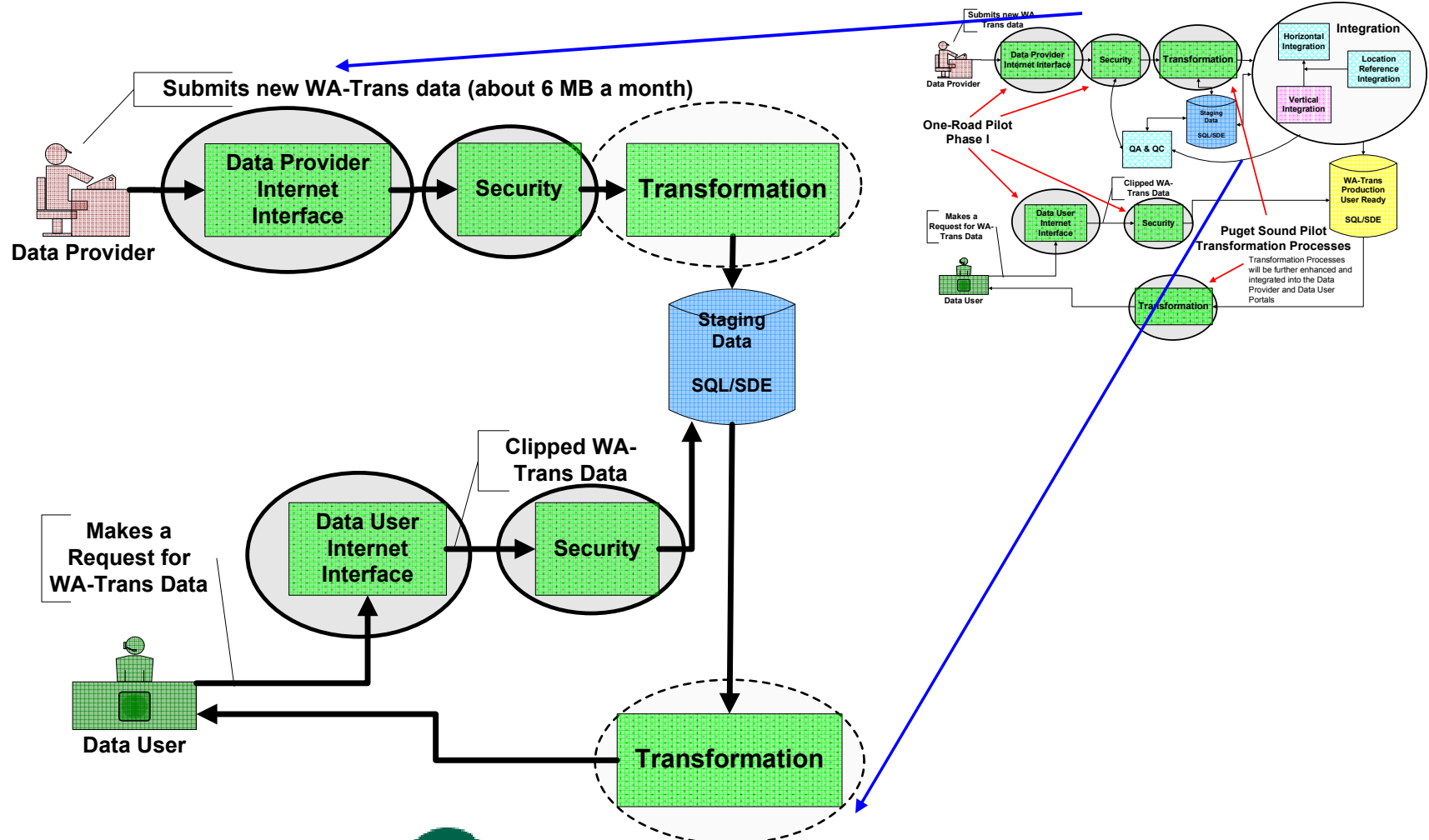


- Use business drivers to define scope,
- Keep the original data provider in control of the changes needed where feasible,
- Minimize systems changes required of data providers to participate,
- Build WA-Trans to be maintained,
- Use software to reduce manual processes where possible,
- Test the resulting data when ever and where ever possible to ensure a usable and useful product.
- Purchase software components when possible to minimize risk and reduce time and complexity,
- Manage risk through pilots which test only portions of the project that produce usable deliverables.

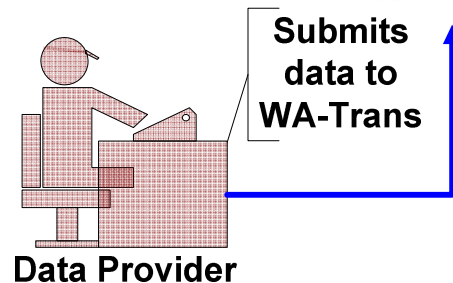
WA-Trans Architecture



Portal Scope and Data Flow for One-Road Pilot Phase I

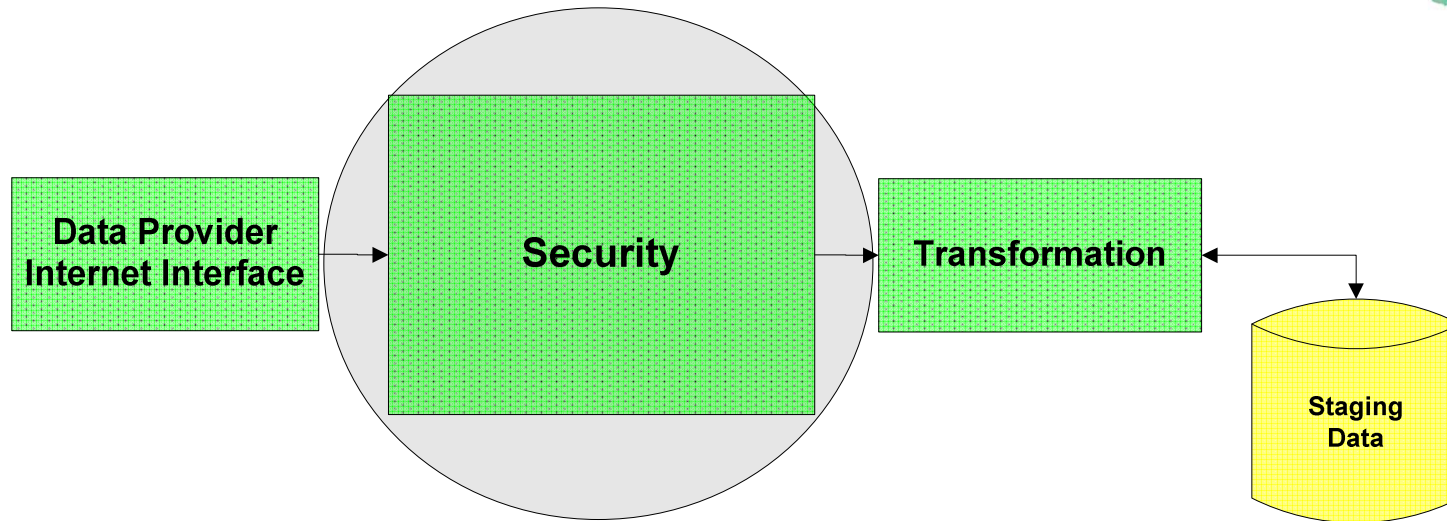


Data Provider User Interface



- The creation of a working prototype is one of the primary goals of the TPF One-Road Phase I Pilot Study.
- Will facilitate an interface with transformation processes, security and basic QA/QC.

Security



- Needed at input to make sure data providers are appropriate and we have agreements with them.
- Will be used for data users to access accounts and authenticate access to data behind WSDOT firewall and for access to specialized data (planning data, etc.).

Data Provider Portal Prototype Homepage



Provider_Home - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP2

File Edit View Favorites Tools Help

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Address http://test.wsdot.wa.gov/mapsdata/TransFramework/Provider_Home.html#ol=undefined Go Links

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Washington State Transportation Framework Data Provider Home Page

Welcome Sunshine County

Submit Data:

Click the **Structural Changes** radio button if structural changes need to be made prior to submitting data, otherwise click the **Submit Data** radio button to submit data.

☐ Submit Data

☐ Structural Changes

Data Status

Your most recent data submission date: [January 17, 2007](#)

Current data processed and in production was submitted on: [December 15, 2006](#)

[Click links to view data status details](#)

Data Structure Mapping

The mapping of the provider attributes is necessary to successfully transform local's data to the WA-Trans attribute standard. If any changes have been made to the structure of the locals data that affects the attribute mapping you will need to alter your Data Structure Mapping accordingly.

Current Events


[Testing the Data User Interface](#)
[The Data Standards have been updated](#)
[PAC meeting notes](#)

Minimum Data Requirements

There are some minimum required attributes necessary to transform go-spatial data to WA-Trans. Efforts have been made to create the standard to minimize issues with local data and still ensure a successful transformation process.

Data Standards

The complete WA-Trans Data Standards are accessible from this link.


[WA-Trans Project](#)

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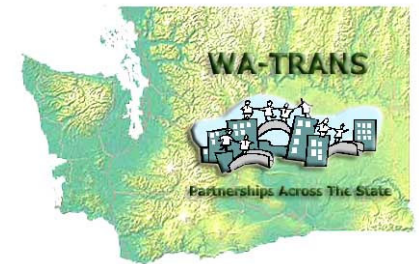
Done

start Microsoft ActiveS... Inbox - Microsoft... Data Provider Po... WA-Trans FMS S... z Windows Expl... z Microsoft Offi... Provider_Home - ... Local intranet

10:07 AM

Data Provider Portal Prototype

Data Status



DataStatus - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP2

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Address http://test.wsdot.wa.gov/mapsdata/TransFramework/DataStatus.html#ol=undefined

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Data Status

This page displays status information related to the data you have submitted to WA-Trans..

The Most Recent Sunshine County Data available to users in WA-Trans: was submitted 12/15/2006

| Date Data Submitted: | Date Data Started Processing: | Date Data Promoted to Production: |
|--|---------------------------------------|-------------------------------------|
| 01/17/2007 | 01/25/2007 | In Process |
| Mode/Theme Road | Metadata Sunshine_Roads.xls | Data File Type ESRI Shape |
| Data Files Submitted Sunshine_RD.shp SunShn_RdPoints.shp Sun-Dark_Agtmt.shp | | |
| NOTES: The processing is taking time as the translation file needs to be altered and tested. | | |

| Date Data Submitted: | Date Data Started Processing: | Date Data Promoted to Production: |
|---|---------------------------------------|-------------------------------------|
| 12/15/2006 | 12/22/2006 | 12/28/2006 |
| Mode/Theme Road | Metadata Sunshine_Roads.xls | Data File Type ESRI Shape |
| Data Files Submitted Sunshine_RD.shp SunShn_RdPoints.shp Sun-Dark_Agtmt.shp | | |
| NOTES: | | |

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Done Local intranet

start Microsoft Act... Inbox - Micro... Data Provider... WA-Trans PM... Windows ... Microsoft ... DataStatus - ... Portal Protot... 10:08 AM



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Data Provider Portal Prototype

Submit Data



SubmitData - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP2

File Edit View Favorites Tools Help

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Address http://test.wsdot.wa.gov/mapsdata/TransFramework/SubmitData.html#ol=undefined

Data Structure Attribute Mapping Data Structure Summary **Submit Data**

Submit Data

This page provides the ability to submit your data to WA-Trans. You will need to:

1. [Select the appropriate Translator.](#)
2. [Add all the files you are submitting by uploading using the browse functions](#)
3. [Create the Submittal Files list in the "Files to Submit" list box](#)
4. [Click the "Submit" button to upload your files to WA-Trans so translation can be preformed.](#)

Select the Translation you would like WA-Trans to use for your submitted data.

Translation Name: Translation Description:

Translate the Sunshine County Shape files related to county roads. This will include the separate road line and point files and also a separate Agreement Point file.

Use the Browse Function to locate the files you will be submitting. All files selected by this process will appear in the "Available Files" list below left.

File Name:

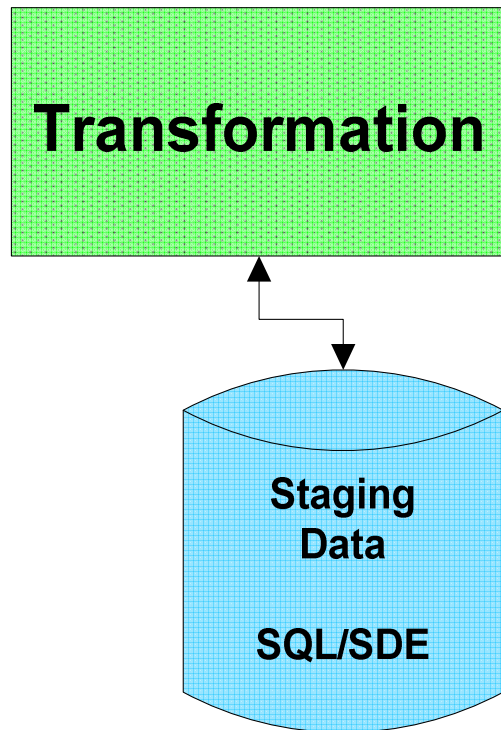
Move the files you wish to submit from the left list (available Files) to the right list (Files to Submit). Only the files from the "Files to Submit" list will be uploaded when the "Submit" Button is clicked.

Available Files

- Sunshine_RD.shp
- SunShn_RdPoints.shp
- Sun-Dark_Agmt.shp
- Sun_Point.shp

Files to Submit

Transformation Processes



- Takes local government data and converts it into format needed for WA-Trans.
- Also takes WA-Trans data and converts it into the local format.

Transformation Requirements



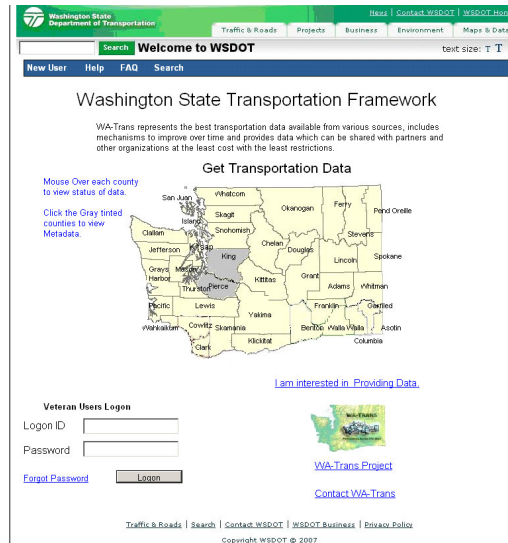
- Provide a bidirectional data translator that operates as a ETL process for data from a local format and schema into the WA-Trans format and from the WA-Trans format and schema back into local format and schema and federal spatial transportation exchange standards.
- Provide components that enable the users to manipulate the imported or exported data into the desired redefinition as necessary. Save that process for each user.

Transformation Requirements cont..

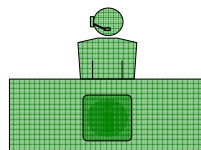


- Provide a data prescreening process to ensure minimum data standards compliance,
- Provide users with the ability to view logging and transactions to ensure data validation and the ability to manually augment the data correction.
- Provide a method to detect new or changed data
- The ultimate software solution shall provide tools and processes to automatically add the minimum metadata at the feature level to WA-Trans.

Data User Interface



**Makes a
Request for
WA-Trans Data**



Data User

- Provide access to data by boundary or x,y min and max,
- Provide specialized clips for easy access,
- Provide some limited query ability (eventually year of WA-Trans, planning roads included, etc.),
- Provide format for translation of data.



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Data User Portal Prototype Homepage Data Information



Home - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP2

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New User Help FAQ Search

Washington State Transportation Framework

WA-Trans represents the best transportation data available from various sources, includes mechanisms to improve over time and provides data which can be shared with partners and other organizations at the least cost with the least restrictions.

Get Transportation Data

Mouse Over each county to view status of data.

Click the Gray tinted counties to view Metadata.

[I am interested in Providing Data.](#)

Veteran Users Logon

Logon ID

Password

[Forgot Password](#)

[WA-Trans Project](#)

[Contact WA-Trans](#)

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Done

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Data User Portal Prototype

Data User Account Form



New_User - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP2

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Address http://test.wsdot.wa.gov/mapsdata/TransFramework/New_User.html#ol=undefined Go Links

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New User Help FAQ Search

This page is where a New User will be able to enter information to gain access to functions that will allow access to data.

Security:
This page will be accessible to anyone who enters the Data User Portal and can be accessed without logging on.

Data User Account Form

To become a data user in WA-Trans requires some contact information so that WA-trans can provide the data requested in the least possible time. You will be creating a data user account with WA-Trans. After you submit this form you will receive an Email at the Email address entered in this form with your Logon ID and Password. For information about WA-Trans click the Help and FAQ menu items at the top of the page.

NOTE: Please fill in all the required fields (Red Stars)

Submit User Account Form

*** Contact Information**

* Last Name * First Name Middle Initial

* Job title * Email Address

* Work Phone Number Cell Phone Number

* Organization Name

*** Organization Address**

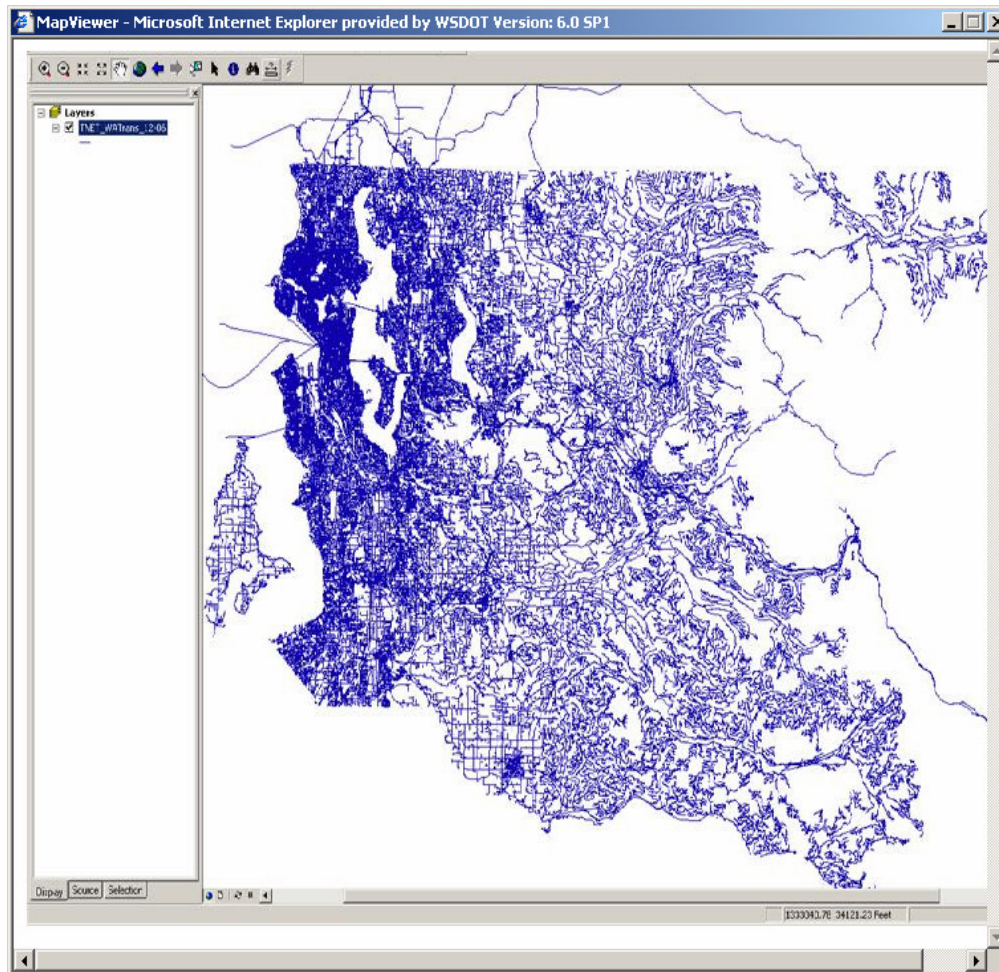
* Street * City

* State * Zip Code

* Phone Number FAX Number

Data User Portal Prototype

Select Data for Download



The user will have the ability to zoom to detail data in a Web Map

Data User Portal Prototype

Select Data for Download



Will Provide:

- Access to data by boundary or x,y min and max,
- Criteria for fine tuning data selection,
- Specialized clips for easy access,
- Format for translation of data.
- Ability to select Datum and Projection for download.
- Ability to drill down to detail data in a Web Map

Select Data - Microsoft Internet Explorer provided by WSDOT Version: 6.0 SP1

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address file:///C:/JAD/Data%20User%20Interface/Prototype/Select%20Data.html#ol=undefined

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Search Welcome to WSDOT text size: T T T

Home New User Quick Start Select Data Help FAQ Search Disclaimers

Select Data for Download

Select a County Boundary and/or a Data Provider. Selecting a Data Provider allows WA-Trans to default the segment descriptions to the provider selected, if a choice needs to be made.

County Boundary Data Provider

OR

Extent can be edited

Lower-Left Long. Lower-Left Lat.
enter text... enter text...

Upper-Right Long. Upper-Right Lat.
enter text... enter text...

OR

Select a Custom Download

Other Selection Criteria

You will need to select items from this list if you include an Exception File

☐ Include All Descriptions
☐ Include all Address Ranges
☐ Include Coincident Segments
☐ Include Coincident Points

Select the format in which you would like your data request delivered.

Select a Data File Type/Format for Download

Include the Exception File (See Other Selection Criteria)
☐ Yes ☒ No

Projection Datum

Launch Map Viewer to Draw Box

Done

Start | Inbox - Microsoft Ou... | WA-Trans Transport... | WA-Trans Transport... | N:\Architecture | Microsoft PowerPoint... | WA-Trans Architectu... | Select Data - Mic... | 4:27 PM



Portal Development Schedule

- The Hardware and Software is being purchased and installed now.
- User testing is expected to begin in late September 2007.
- Functional Prototype Data User and Data Provider Portals are expected to be ready by December 2007.

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